

Smart Off-Grid Solar and Wind Lighting:

The Brightest Lights in the Industry

Clear Blue Technologies' Illumient Smart Off-Grid lighting solutions deliver the lowest cost of ownership and highest performance in the industry. Smart Off-Grid software enables the lights to be monitored, controlled and proactively maintained in the cloud, delivering unmatched reliability and long lasting system performance.



Clear Blue's Illumient Smart Off-Grid lighting solution Illumient - the most comprehensive, advanced lighting system on the market.

A **complete solution** that is energy efficient, easy to install and beautiful, Illumient provides a complete solution – poles, lights, arms, solar panels, wind turbines, cabling, controllers, and batteries along with 24x7 monitoring & maintenance.

Illumient is **proven** in the field, with lighting installations across 26 US states and 9 Canadian provinces, as well as Smart Off-Grid in 37 countries across the globe, in extreme weather environments, and both urban and rural landscapes.

With Illumience, the cloud-based software that provides **24x7 remote monitoring, management,** and proactive servicing, Illumient lights, security systems, and IoT devices can achieve unprecedented reliability and performance, while dramatically reducing costs.

The Smart Off-Grid Difference

No Grid Needed

With solar or hybrid energy, Illumient can be installed in locations without access to grid power, with less environmental disruption, no reliance on old infrastructure, reduced electricity costs and no extreme weather outages.

Battery & Load Management

Clear Blue's engineers closely monitor and manage battery performance, maximizing battery life, and eliminating extra costs or disruptions from avoidable battery replacements.

Reduced Ongoing Costs

Clear Blue's engineers are able to remotely troubleshoot technical issues that may arise, preventing costly site visits. As a result, customers save up to 70% on maintenance costs.

Expert Management

Clear Blue's engineers actively monitor and manage systems to ensure that each lighting system is running at peak efficiency. Illumient customers receive the highest lighting levels, regardless of weather.

Environmentally Sustainable

By avoiding trenching to grid lines and powered by solar/wind energy, Illumient provides a clean energy source that reduces the impact on the environment, demonstrates sustainability goals, and provides eligibility for grant funding.

System Visibility

Connection to Illumient allows engineers and customers to monitor system performance, providing assurance that systems are performing as designed.

Remote Maintenance

By monitoring and performing system maintenance remotely, Clear Blue's engineers are able to make adjustments to ensure top performance and avoid unnecessary service calls.

Precision Engineering

Each Illumient system is designed based on location, energy potential, lighting needs, and aesthetic aspirations, ensuring each installation performs as promised. Customers don't overpay and the design is visually appealing.

Easy Installation

With simple drill-and-drop installation, live engineering support, customized project installations, and a smart phone app for installers, installation is cost effective, fast, and worry-free.

Customize your Lighting Solution with:

- **Poles:**
metal or spun concrete
- **Lights:**
any LED luminaire, with both A/C & D/C supported
- **Solar/Wind:**
single, dual solar or solar/wind hybrid
- **Decorative:**
a variety of styles/colours
- **Smart City / IoT:**
device support for motion detectors, WiFi, security cameras, pedestrian counters, sensors & more

Where Clear Blue's Smart Off-Grid is Used

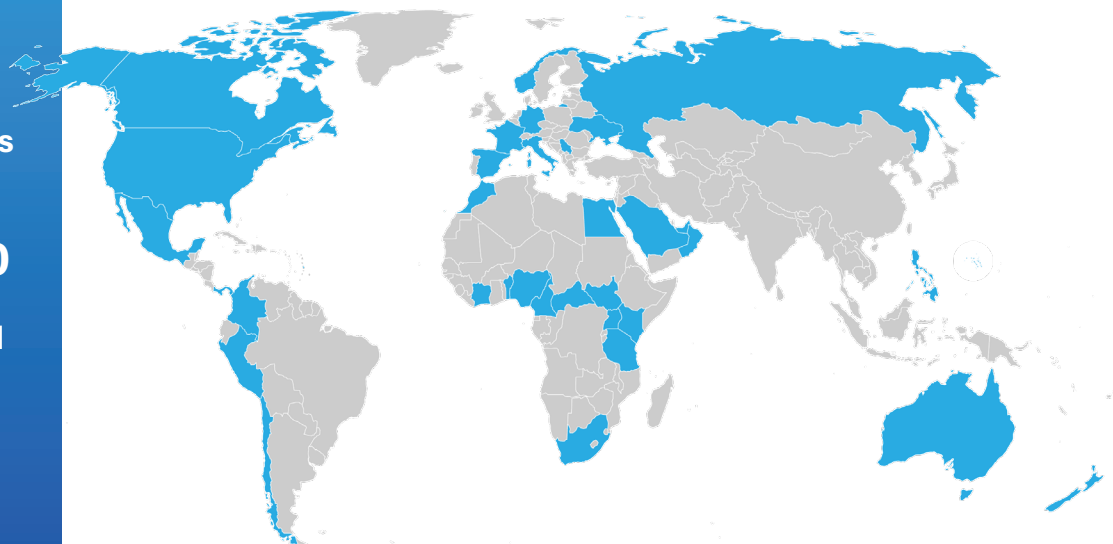
>400
Customers

26/9
States &
Provinces

37
Countries

>7,000
Units
deployed

>5.4 million
Days of operation



Street, park,
roadway,
campus, highway,
emergency
lighting & more



Telecom systems



Security/CCTV
cameras

Internet-of-Things
(IoT) Devices



Smart traffic
management,
parking
systems



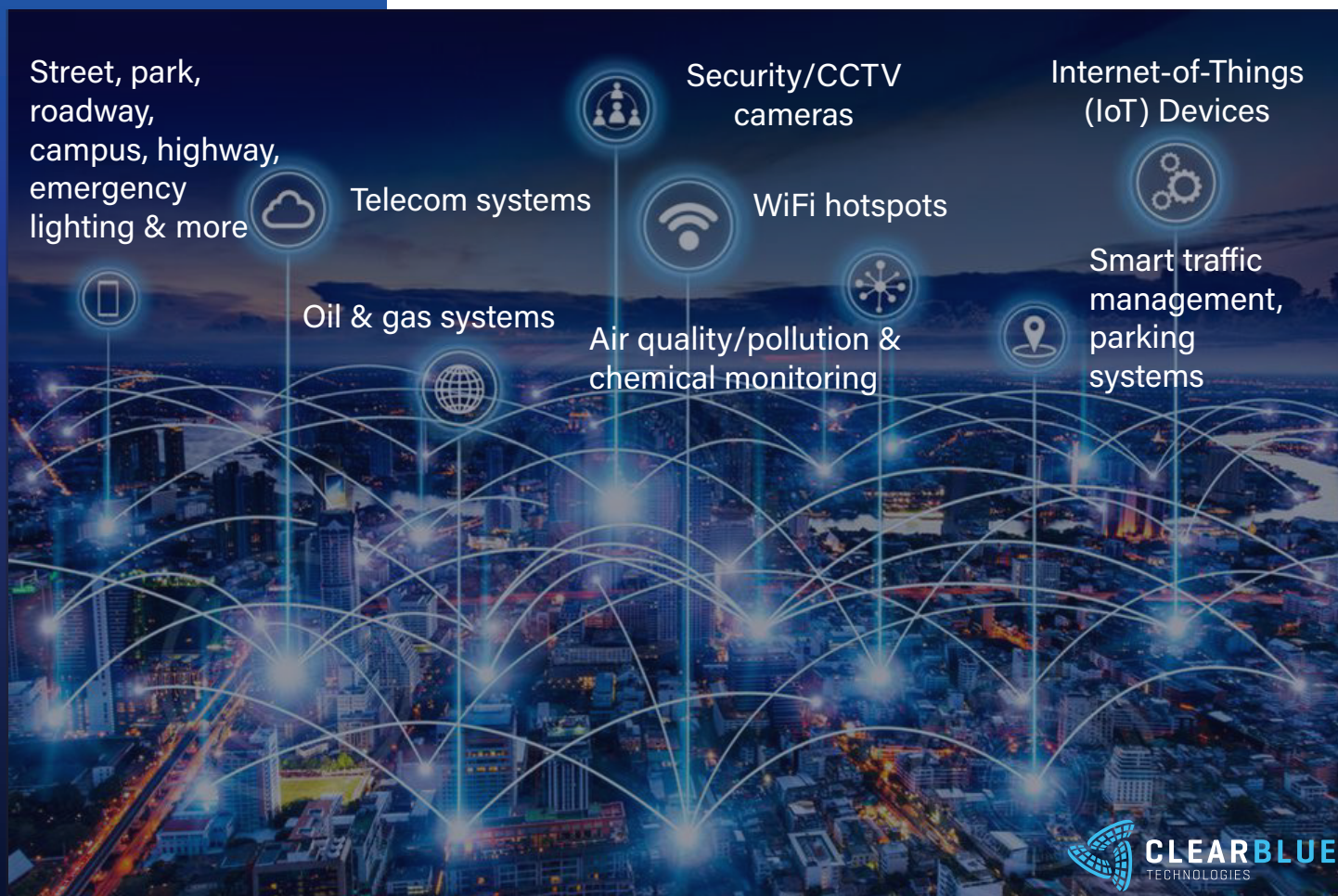
Oil & gas systems



WiFi hotspots



Air quality/pollution &
chemical monitoring



Illumience & Energy-as-a-Service

Remote Monitoring & Reporting

Illumience brings smart technology to off-grid lighting, providing unmatched reliability and performance. Illumience has a variety of reporting options to ensure you have the information you need, when you need it.



Real-time monitoring and reporting



Global performance data analytics



Easy to use interface



Predictive analytics and energy forecasting

Illumience is a unique, real-time **remote management** and control software that tracks and optimizes system performance, enabling greater uptime and longer life. Easily accessible through a cloud interface from a computer or smartphone, it includes Clear Blue's **patented energy & weather forecasting**, plus much more.

With **Energy-as-a-Service** (EaaS), experts provide ongoing management to ensure the highest performance and longest battery life, minimizing the worry and disruption involved with battery replacement throughout the life of the systems.



- Innovative tools and support ensure installation is completed correctly and swiftly, reducing unnecessary costs and headaches.
- Illumience delivers the best off-grid systems with the highest performance. Cloud-based monitoring and control allows for proactive maintenance to ensure the systems perform as designed and have maximum uptime, saving time and money.
- Every Illumient lighting system includes three years of monitoring and maintenance, granting peace-of-mind in knowing that experts oversee the performance of every system.

Partner Contact:

Delivering on the Promise of Power